Practice C

LESSON 3.7

For use with pages 176–181

Use a proportion to answer the question.

1. What percent of 220 is 11?

2. What number is 23% of 300?

3. What number is 1.5% of 500?

4. 70 is 40% of what number?

Use the percent equation to answer the question.

5. What percent of 82 is 24.6?

6. What percent of 140 is 123.2?

7. What number is 1.5% of 600?

8. What number is 105% of 350?

9. 6.72 is what percent of 42?
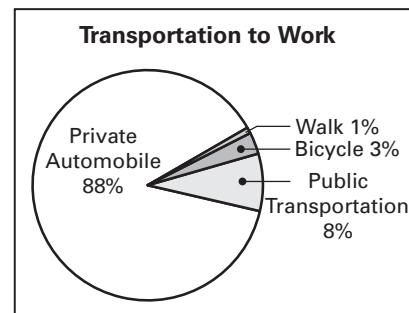
10. 121.1 is what percent of 140?

Answer the question when $n = 15$.

11. What percent of 180 is $(n + 96.6)$?

12. 64.8 is $(n + 3)$% of what number?

Find the percent. Round your answer to the nearest whole percent when necessary.

13. $11.70 tip on a $65 dinner

14. 16 hours of a day

15. Golf Clubs You buy a set of golf clubs on sale for $120. The price is discounted 15% and the sales tax is 6%. Would it cost less to have the discount applied before or after the sales tax is added? *Explain* your reasoning.

16. Employee Discount Where you work you get an 8% discount on any purchase. You shop during a 30% off sale. If you purchase an item regularly priced at $100, will you save 38%? *Explain* your reasoning.

17. Transportation The circle graph shows the results of a survey in which 500 people in an office building were asked how they get to work.

Transportation to Work

Private Automobile 88%
Walk 1%
Bicycle 3%
Public Transportation 8%

   a. Estimate how many people use public transportation to get to work.

   b. Estimate how many people do not use a private automobile to get to work.

   c. Estimate how many more people use public transportation than use a bicycle.

18. Jeans Last week, a clothing store sold 134 pairs of women's jeans and 88 pairs of men's jeans. This week, the clothing store sold 90 pairs of women's jeans and 100 pairs of men's jeans. Complete the following statements.

   a. Over the two-week period, about __?__% of the jeans sold were women's jeans.

   b. The number of men's jeans sold from last week to this week increased by __?__%.

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